Article Index, January—June, 1977

NOTES:
A (μC Application Ideas); C (Circuit Design Award); F (Design Feature); M (μComputerist Corner); N (news); P (Progress in Products)

Circuits/Circuit Design

AC unity-gain power buffers amplify current. May 5, pg. 113 (C)

BCD arithmetic units simplify system design. April 20, pg. 140 (C)

Bidirectional ECL one-shot uses a single IC. January 5, pg. 41 (C)

Build a remotely programmable oscillator. February 20, pg. 124 (C)

Build a transformerless tone annunciator. April 5, pg. 141 (C)

Build a VCO with a single TTL Schmitt trigger. May 20, pg. 125 (C)

Build a variable sawtooth generator with a 555 timer. May 20, pg. 125 (C)

Build this transformerless low-voltage supply. February 5, pg. 102 (C)

CCD's improve audio system performance and generate effects. January 5, pg. 55 (F)

CMOS op amp and MOSFET implement wideband amplifier. June 20, pg. 114 (C)

Circuit converts keypad to dial-pulse telephone. January 5, pg. 39 (C)

Constructing a low-cost terminal interface. June 5, pg. 205 (M)

Control your shift register's length externally. February 5, pg. 102 (C)

Derive bipolar pulses from a unipolar source. April 5, pg. 144 (C)

Design circuits for testability to save time and cut bottlenecks. May 20, pg. 95 (F)

Design contest expands "scope" of novel V/F/V applications. February 5, pg. 48 (F)

Designer's Guide to: Temperature control. June 20, pg. 87 (F)

Designer's Guide to: Temperature measurement. May 20, pg. 71 (F)

Designer's Guide to: Temperature sensing. May 5, pg. 77 (F)

Develop your own effective delay-distortion equalizer. April 5, pg. 74 (F)

Dielectric absorption—it can be a real problem in timing circuits. January 20, pg. 83 (F)

Differential high-Z rms-dc converter has 0.1% accuracy. May 5, pg. 114 (C)

Digital 3-phase generator doesn't lock or oscillate. January 5, pg. 37 (C)

Digital voltmeter IC drives analog meter. June 20, pg. 113 (C)

Don't forget reference stability when designing A-to-D converters. June 20, pg. 105 (F)

Dual adjustable tracking regulator delivers 0.5A/side. January 5, pg. 42 (C)

8080 CMOS clock uses two IC's. January 5, pg. 50 (C)

"Electrometer" boasts low bias current. January 20, pg. 90 (C)

Emitter follower's fall time is independent of load. February 5, pg. 105 (C)

Exclusive-OR's and flip-flops divide square waves by primes. June 20, pg. 114 (C)

Expander doubles VCO frequency deviation. January 20, pg. 94 (C)

Five IC's make Ainsworth oscillator with start-up control. March 5, pg. 113 (C)

Frequency doubler outputs square wave with 50% duty cycle. June 5, pg. 211 (C)

Frequency-doubling tach operates from a single supply. June 5, pg. 208 (C)

Frequency-shift keyer features rock-steady operation. January 5, pg. 44 (C)

Gates oscillator completes last cycle. January 5, pg. 43 (C)

High-speed analog sampler uses only two IC's. May 20, pg. 128 (C)

How can you be sure that your PLL is really locked in? February 20, pg. 109 (F)

IC V/F converters readily handle other functions such as F/V, A/D. January 5, pg. 82 (F)

Let A/D converters produce their own auto-scaling. April 5, pg. 142 (C)

Light-emitting memory aids μP debugging. May 5, pg. 107 (M)

Low-cost A/D converter transmits and receives. January 5, pg. 35 (C)

Match your creativity against the 8253 Programmable Interval Timer. May 5, pg. 86 (F)

μP I/O expansion scheme uses standard parts. January 5, pg. 36 (C)

Multiplex display circuit features minimum parts count. May 5, pg. 112 (C)

Nomograph lets you add and subtract decibels. March 20, pg. 149 (C)

Op amp or instrumentation amp: When do you use which and why? May 20, pg. 109 (F)

Phase-locked loop indicator circuit nets designer $1000-bond first prize. May 20, pg. 33 (N)

Polarity indicator minimizes parts count. February 20, pg. 121 (C)

Power converter uses low-cost audio transformer. April 20, pg. 139 (C)

Ramp-and-pedestal phase control uses quad op amp. June 5, pg. 208 (C)

Schmitt trigger provides phase adjustment. January 20, pg. 90 (C)

Sensitive circuits require transient-surge protection. February 20, pg. 113 (F)

Single op amp full-wave rectifier has no dc offset. April 5, pg. 144 (C)

Solve clock problems with divide-by-1-1/2 circuit. February 20, pg. 121 (C)

Squeeze high performance out of low-cost hybrid data converters. January 20, pg. 75 (F)

Take a fresh look at new IC timer applications. March 20, pg. 127 (F)

Ten prizes awarded in EDN/Siliconix VFET design contest. June 20, pg 28 (N)

Three components program regulator from max. to zero. May 20, pg. 126 (C)

Time events with a pulse output controller. January 5, pg. 43 (C)

Time/voltage converter solves duty cycle problems. January 5, pg. 38 (C)

Today's monolithic switching circuits greatly simplify power-supply designs. March 20, pg. 47 (N)

Tracking-type A/D requires no clock oscillator. January 20, pg. 92 (C)

Two diodes form high-power exclusive-OR. March 20, pg. 149 (C)

Two IC's convert 7-segment-output to BCD. February 5, pg. 103 (C)

Use the HP-25 as timer and scorekeeper. February 20, pg. 123 (C)

VCO reactance switching provides broad tuning range. March 20. pg. 151 (C)

Variable duty-cycle clock develops clock edge. March 5, pg. 112 (C)

Voltage comparator operates over a wide range. March 20, pg. 153 (C)

Will custom resistor networks fit into your next design? March 5, pg. 104 (F)

Will VMOS power transistors replace bipolars in HF systems? June 20, pg. 71 (F)

Communications

A designer's look into fiber-optic fabrication. January 20, pg. 54 (F)

PABX uses a μC to provide digital switching function flexibility. March 5, pg. 45 (A)

Unique liquid level-sensing system can eliminate oil-tank overfills. February 5, pg. 22 (N)

Components/Modules

A solid-state relay can help if you only learn to use it right. March 20, pg. 103 (F)

Available for sampling, bubble-memory chip costs $200, stores 92k bits and suits μP-system applications. May 5, pg. 118 (P)

CMOS 14-bit A/D converter is industry's first in 24-pin DIP. March 20, pg. 156 (P)

Data-acquisition microperipheral fits μP interfacing function into a single package. February 5, pg. 108 (P)

Designer's Guide to: Temperature sensing. May 5, pg. 77 (F)

Despite their venerability, batteries are still reaching new market highs. April 5, pg. 26 (N)

Dielectric absorption—it can be a real problem in timing circuits. January 20, pg. 83 (F)

Hybrid 12-bit DAC includes input register to help solve interfacing problems. May 20, pg. 134 (P)

Inductor designs easily perform delay and switching functions. February 5, pg. 81 (F)

Lasers and sophisticated projectors combine in multimedia lightshow. June 20, pg. 27 (N)

Lighted thumbwheel switches combine low cost and simplified assembly. June 5, pg. 216 (P)

Low-cost deglitched DAC squeezes all components into a compact module. January 5, pg. 95 (P)

Nonconnector interconnect scheme promises big reliability, small size. March 20, pg. 53 (N)

Op amp or instrumentation amp: When do you use which and why? May 20, pg. 109 (F)

Open-frame power supplies aim at μC market. April 5, pg. 149 (P)

SS relay handles 40A, yet occupies less than 1/3 cubic inch and costs $12. June 5, pg. 221 (P)

Sensitive circuits require transient-surge protection. February 20, pg. 113 (F)

Side-by-side growth is the destiny for resistor-network technologies. March 5, pg. 29 (N)

SPECIAL REPORT—DIP switches and relays—money- and space-saving packaging that's in step with automation. March 20, pg. 84 (F)

SPECIAL REPORT—Variable resistors and networks—a look at what products are getting "on board" today. February 20, pg. 64 (F)

Squeeze high performance out of low-cost hybrid data converters. January 20, pg. 75 (F)

Surface acoustic wave devices move into high-volume markets. May 5, pg. 96 (F)

This socket eliminates problems in extracting multipin LSI IC's. April 20, pg. 157 (P)

Will custom resistor networks fit into your next design? March 5, pg. 104 (F)

Computers/Data Processing

A BCD-to-binary conversion routine. April 5, pg. 135 (M)

A buyer's guide to available printing computer terminals. May 5, pg. 66 (F)

Available for sampling, bubble-memory chip costs $200, stores 92k bits and suits μP-system applications. May 5, pg. 118 (P)

Bit-slice μP and IC display drivers implement full-graphics capability in plasma-panel terminal. June 5, pg. 43 (A)

Calculator converts to a μC I/O keypad/display. February 5, pg. 97 (M)

Calibration aid uses μC for system control and μP for I/O interfacing. April 20, pg. 43 (A)

Computer-controlled system cuts power consumption by selective shutdown of power-hungry appliances. February 20, pg. 33 (N)

Computer family provides minicomputer performance at microcomputer prices. May 20, pg. 136 (P)

Computer system automatically alerts motorist of traffic congestion. March 5, pg. 34 (N)

Conditional commands—the if's, and's and but's of software **(EDN SOFTWARE DESIGN SERIES).** May 5, pg. 102 (F)

Constructing a low-cost terminal interface. June 5, pg. 205 (M)

Data-acquisition microperipheral fits μP interfacing function into a single package. February 5, pg. 108 (P)

Design a low-cost CRT terminal around a single-chip μP. May 5, pg. 88 (F)

Design plus-feedback tracking regulators in 7 steps. April 5, pg. 141 (C)

Digital cassette recorder provides total interface solution. February 5, pg. 106 (P)

Digital plotter combines software graphics with digitizing capability. April 5, pg. 38 (A)

Direct-memory access μP gives airtraffic controllers on-the-job training. February 20, pg. 49 (A)

Distributed microprocessing cuts waste in extruded-plastic control systems. May 20, pg. 40 (A)

Dynamic MOS RAM's: the economic solution for many system designs. June 20, pg. 61 (F)

EDN SOFTWARE DESIGN COURSE—13 Chapters. June 5, pg. 67 (F)

8080 CMOS clock uses two IC's. January 5, pg. 50 (C)

Even bare-bones development systems make good learning tools **(EDN μC DESIGN SERIES).** March 20, pg. 115 (F)

Fast algorithm performs decimal-to-binary conversion. March 5, pg. 115 (C)

Flexible-disc memory utilizes high performance cost-effective μC design. March 5, pg. 43 (A)

Functional data modules let IC tester examine all μP's and related LSI. March 20, pg. 69 (A)

Graphics terminal combines high performance with low cost. June 5, pg. 214 (P)

Home computer market will grow at a steady annual rate through 1981. May 20, pg. 30 (N)

Imaginative planning leads to sound μC-based product design **(EDN μC DESIGN SERIES).** June 20, pg. 79 (F)

Let assignment statements handle the soft-computation dirty work **(EDN SOFTWARE DESIGN SERIES).** April 20, pg. 131 (F)

Line personnel easily program fully automatic wafer processor. April 20, pg. 46 (A)

Low-cost circuit card turns your μC into a precision frequency counter. April 5, pg. 150 (P)

Low-cost μC directly executes a FORTRAN-like, high-level language. February 20, pg. 129 (P)

Matrix chart brings order to the 8080 set. June 5, pg. 206 (M)

Microcomputer-controlled electronics replace apartment intercom system. February 20, pg. 53 (A)

μC in portable medical monitor conditions data and oversees I/O. May 5, pg. 29 (A)

Microcomputer replaces mini in airborne navigation system. June 5, pg. 46 (A)

μC signature-verification unit uses CRT to reduce forgeries. May 20, pg. 39 (A)

μP algorithms make BCD-binary conversions super-fast. January 5, pg. 46 (C)

μP-controlled DMM uses function modules made of software, not hardware. January 20, pg. 31 (A)

μP I/O expansion scheme uses standard parts. January 5, pg. 36 (C)

μP with mass-storage cassette gives video quiz game long-term appeal. January 20, pg. 32 (A)

Modular graphics system features programmable plug-in options. April 5, pg. 39 (A)

Multitasking operating systems simplify μC software development **(EDN μC DESIGN SERIES).** January 20, pg. 67 (F)

1977 NCC—this year promises to be a vital learning experience. June 5, pg. 22 (N)

OEM floppy-disc usage set to soar despite appearance of bubble memories. May 20, pg. 29 (N)

1k VMOS memory accesses in 45 nsec, matches specs of bipolar RAM's. June 20, pg. 120 (P)

PABX uses μC to provide digital switching function flexibility. March 5, pg. 45 (A)

PROM resident real-time executive eases implementation of μC system. June 5, pg. 216 (P)

Packaged personal computer systems highlight first Computer Faire. June 20, pg. 30 (N)

Personal Computing '76—more than a trade show, an event unto itself! January 5, pg. 20 (N)

Polling/addressing terminal boasts complete package of features at low cost. March 5, pg. 118 (P)

Portable troubleshooter analyzes μP address and data bus lines in real time. March 20, pg. 158 (P)

Power distribution to minicomputer systems can now be programmable. February 5, pg. 106 (P)

Process-oriented μC system eases implementation of most industrial applications. April 5, pg. 149 (P)

Processor completely automates prerecorded tape tester. February 5, pg. 30 (A)

Programmable peripheral interface IC's boost your μC's flexibility. April 5, pg. 79 (F)

Programs convert TTY into memory typewriter. March 5, pg. 109 (M)

Rose Bowl Parade features μP-controlled animated elephant. January 5, pg. 27 (A)

Second generation mini-floppy increases storage capacity by a factor of four. February 20, pg. 126 (P)

Sharpen your μC design skills quickly on "μSystem" projects **(EDN μC DESIGN SERIES).** February 20, pg. 89 (F)

Single-board computer updates status of emergency equipment on dynamic map. January 5, pg. 28 (A)

Small program insures validity of loaded data. May 5, pg. 106 (M)

Software: An introduction to the intricacies of programming **(EDN SOFTWARE DESIGN SERIES).** March 5, pg. 87 (F)

SPECIAL REPORT—Computer terminals—dumb, smart or intelligent, they form the key man-computer interface. May 5, pg. 42 (F)

SPECIAL REPORT—Flexible discs vs. magnetic tape—are they complementary or competitive? February 5, pg. 36 (F)

SPECIAL REPORT—Microprocessor development systems—which one is "best"? March 5, pg. 68 (F)

SPECIAL REPORT—Semiconductor memories—technology advances spur new products; manufacturers strive for standardization. June 20, pg. 46 (F)

SPECIAL REPORT—The debatable future of minicomputers—some points of view. June 5, pg. 54 (F)

Successful μSystems combine user needs and μC technology **(EDN μC DESIGN SERIES).** April 20, pg. 104 (F)

Talking computerese? First learn the "in's" and "out's" of I/O **(EDN SOFTWARE DESIGN SERIES).** April 5, pg. 87 (F)

Taximeter collects managerial data at the touch of a button. March 20, pg. 73 (A)

The μComputerist Corner. January 5, pg. 88 (F)

Thin-film magnetic recording heads promise to increase storage densities. April 5, pg. 32 (N)

This programmer's glossary defines key software terms. January 5, pg. 75 (F)

To get your μC project going, grab at corners of the problem **(EDN μC DESIGN SERIES).** May 20, pg. 84 (F)

Transfer commands—a "branching bunch" of subroutine executors **(EDN SOFTWARE DESIGN SERIES).** May 20, pg. 117 (F)

Using charge-coupled devices can reduce bulk memory costs. January 5, pg. 70 (F)

Variable microcycle-timing techniques give minicomputer pair impressive price/performance characteristics. January 20, pg. 99 (P)

Video RAM's add a new dimension to microcomputer interfacing. March 5, pg. 81 (F)

When learning programming from scratch, begin with the "BASICS"! **(EDN SOFTWARE DESIGN SERIES).** March 20, pg. 141 (F)

Your voice becomes a third hand with μP-controlled data-entry system. February 5, pg. 29 (A)

Z80 in microcomputer board adds intelligence to amplifier. May 5, pg. 31 (A)

Instrumentation, Test & Measurement

A wisely chosen, properly treated power supply won't give you grief. April 5, pg. 93 (F)

Abuse testing takes instruments to their limits and beyond. April 20, pg. 97 (F)

Built-in frequency counter teams up with one-year calibration life to make a truly versatile DMM. January 20, pg. 99 (P)

Coupler adds IEEE-488 bus capability to older instruments. March 5, pg. 119 (P)

DMM supplements volt, amp, ohm ranges with conductance and diode tests. June 20, pg. 120 (P)

DPM adds dB and true rms abilities to bipolar dc measurements. April 5, pg. 155 (P)

Design circuits for testability to save time and cut bottlenecks. May 20, pg. 95 (F)

Digital plotter combines software graphics with digitizing capability. April 5, pg. 38 (A)

Functional data modules let IC tester examine all μP's and related LSI. March 20, pg. 69 (A)

Function generators—today's universal signal sources. April 20, pg. 78 (F)

General purpose logic-state analyzer substitutes LED's for CRT. June 20, pg. 119 (P)

IECI discusses new products, novel uses at its third conference on μP industrial applications. March 5, pg. 31 (N)

Is the automatic oscilloscope a viable instrumentation goal? February 5, pg. 66 (F)

Line personnel easily program fully automatic wafer processor. April 20, pg. 46 (A)

Light-emitting memory aids μP debugging. May 5, pg. 107 (M)

Low-cost circuit card turns your μC into a precision frequency counter. April 5, pg. 150 (P)

μC in portable medical monitor conditions data and oversees I/O. May 5, pg. 29 (A)

μP-controlled DMM uses function modules made of software, not hardware. January 20, pg. 31 (A)

Portable autoranging counter lowers cost of 30 MHz capability to $120. March 20, pg. 156 (P)

Portable troubleshooter analyzes μP address and data bus lines in real time. March 20, pg. 158 (P)

Pulse generator features simultaneous outputs, versatile level controls. March 5, pg. 118 (P)

Single-unit dual channel FFT analyzer calculates and displays 17 functions. June 5, pg. 219 (P)

Skillfully used logic analyzers solve problems large and small. April 20, pg. 86 (F)

SPECIAL REPORT—DMM's—the search for the right one can be a bewildering experience. January 20, pg. 40 (F)

SPECIAL REPORT—Intelligent instruments—they expand measurement capabilities, yet simplify the task. April 20, pg. 54 (F)

SPECIAL REPORT—Microprocessor development systems—which one is "best"? March 5, pg. 68 (F)

Study cites medical electronics showing strong vital signs. April 5, pg. 34 (N)

System handles four units at once, increasing RAM test capability. May 20, pg. 134 (P)

Thermal imaging speeds circuit design by pinpointing hot spots. February 20, pg. 99 (F)

Management/Interface

Article Index, July—December, 1976. March 5, pg. 93 (F)

Electro '77—Back to New York in style. April 5, pg. 50 (F)

ISSCC '77: an exposition that truly lives up to its name. February 5, pg. 21 (N)

Outlook '77—a stable, though not skyrocketing, pattern of electronic business growth. January 5, pg. 19 (N)

Product liability—a grim reality you can no longer afford to ignore. April 20, pg. 115 (F)

Technology, user applications and product-marketing sessions highlight electric vehicle conference program. April 20, pg. 32 (N)

Tired of decoding alphabet soup? Try this acronym dictionary. May 20, pg. 101 (F)

Materials & Packaging

A designer's look into fiber-optic fabrication. January 20, pg. 54 (F)

Interconnection offers component pluggability and eliminates solder. January 5, pg. 94 (P)

Multiwire interconnection technology continues to make significant gains. April 20, pg. 32 (N)

Side-by-side growth is the destiny for resistor-network technologies. March 5, pg. 29 (N)

SPECIAL REPORT—Switching power transistors and passive heat removers—a power-handling team geared to the current need for energy conservation. May 20, pg. 50 (F)

Thin-film magnetic recording heads promise to increase storage densities. April 5, pg. 32 (N)

Unique liquid level-sensing system can eliminate oil-tank overfills. February 5, pg. 22 (N)

Semiconductors

A/D converter chip sets do more than just cut DVM parts count. February 5, pg. 88 (F)

A single milliwatt is worth a "thousand bits" in this 1k RAM. January 5, pg. 93 (P)

CCD's improve audio system performance and generate effects. January 5, pg. 55 (F)

CMOS 3-1/2-digit DMM/DPM IC contains reference and display decoder/drivers. June 20, pg. 122 (P)

Digital voltmeter IC drives analog meter. June 20, pg. 113 (C)

Don't fall prey to those phantom power-transistor failure modes. March 5, pg. 101 (F)

Don't overlook semicustom IC's for your next design project. February 5, pg. 72 (F)

Dynamic MOS RAM's: the economic solution for many system designs. June 20, pg. 61 (F)

Enter a monolithic multiplier that exhibits accuracy of 0.25% of all theoretical values. April 20, pg. 155 (P)

How will the growth of silicon real estate impact design engineers? January 20, pg. 23 (N)

Hybrid power packages ease design of multitransistor power controls. May 5, pg. 118 (P)

IC V/F converters readily handle other functions such as F/V, A/D. January 5, pg. 82 (F)

Logic family update—SSI/MSI still thrive in the world of LSI. February 20, pg. 79 (F)

μP with mass-storage cassette gives video quiz game long-term appeal. January 20, pg. 32 (A)

1k VMOS memory accesses in 45 nsec, matches specs of bipolar RAM's. June 20, pg. 120 (P)

Op amp or instrumentation amp: When do you use which and why? May 20, pg. 109 (F)

Programmable chip controller handles SDLC and other protocols. May 5, pg. 117 (P)

Programmable peripheral interface IC's boost your μC's flexibility. April 5, pg. 79 (F)

SPECIAL REPORT—Semiconductor memories—technology advances spur new products; manufacturers strive for standardization. June 20, pg. 46 (F)

Sensitive circuits require transient-surge protection. February 20, pg. 113 (F)

SPECIAL REPORT—Switching power transistors and passive heat removers—a power-handling team geared to the current need for energy conservation. May 20, pg. 50 (F)

Submicron IC technology: from lab curiosity to production. May 5, pg. 21 (N)

Take a fresh look at new IC timer applications. March 20, pg. 127 (F)

Today's monolithic switching circuits greatly simplify power-supply designs. March 20, pg. 47 (N)

Transistor family offers the right blend of speed, current and voltage. March 20, pg. 158 (P)

Using charge-coupled devices can reduce bulk memory costs. January 5, pg. 70 (F)

Video RAM's add a new dimension to microcomputer interfacing. March 5, pg. 81 (F)

Will VMOS power transistors replace bipolars in HF systems? June 20, pg. 71 (F)

You can't buy most of these parts yet, but look at what's coming. April 20, pg. 29 (N)

Systems

A/D converter chip sets do more than just cut DVM parts count. February 5, pg. 88 (F)

Analog simulator shows complexities of meeting growing energy demands. February 20, pg. 25 (N)

Bit-slice μP and IC display drivers implement full-graphics capability in plasma-panel terminal. June 5, pg. 43 (A)

CCD's improve audio system performance and generate effects. January 5, pg. 55 (F)

Calculator converts to a μC I/O keypad/display. February 5, pg. 97 (M)

Calibration aid uses μC for system control and μP for I/O interfacing. April 20, pg. 43 (A)

Computer-controlled system cuts power consumption by selective shutdown of power-hungry appliances. February 20, pg. 33 (N)

Computer system automatically alerts motorists of traffic congestion. March 5, pg. 34 (N)

Design a low-cost CRT terminal around a single-chip μP. May 5, pg. 88 (F)

Design circuits for testability to save time and cut bottlenecks. May 20, pg. 95 (F)

Designer's Guide to: Temperature control. June 20, pg. 87 (F)

Direct-memory access μP gives airtraffic controllers on-the-job training. February 20, pg. 49 (A)

Distributed microprocessing cuts waste in extruded-plastic control systems. May 20, pg. 40 (A)

Dynamic MOS RAM's: the economic solution for many system designs. June 20, pg. 61 (F)

EDN SOFTWARE DESIGN COURSE—13 Chapters. June 5, pg. 67 (F)

Electromotive power—tomorrow's solution for moving goods and people. January 20, pg. 25 (N)

Even bare-bones development systems make good learning tools **(EDN μC DESIGN SERIES).** March 20, pg. 115 (F)

How will the growth of silicon real estate impact design engineers? January 20, pg. 23 (N)

Your voice becomes a third hand with μP-controlled data-entry system. February 5, pg. 29 (A)

Hybrid power packages ease design of multitransistor power controls. May 5, pg 118 (P)

IECI discusses new products, novel uses at its third conference on μP industrial applications. March 5, pg. 31 (N)

Lasers and sophisticated projectors combine in multimedia lightshow. June 20, pg. 27 (N)

Microcomputer-controlled electronics replace apartment intercom system. February 20, pg. 53 (A)

Microcomputer replaces mini in airborne navigation system. June 5, pg. 46 (A)

μC signature-verification unit uses CRT to reduce forgeries. May 20, pg. 39 (A)

μP with mass-storage cassette gives video quiz game long-term appeal. January 20, pg. 32 (A)

Multitasking operating systems simplify μC software development **(EDN μC DESIGN SERIES).** January 20, pg. 67 (F)

Processor completely automates prerecorded tape tester. February 5, pg. 30 (A)

Programmable peripheral interface IC's boost your μC's flexibility. April 5, pg. 79 (F)

Rose Bowl Parade features μP-controlled animated elephant. January 5, pg. 27 (A)

Sharpen your μC design skills quickly on "μSystem" projects **(EDN μC DESIGN SERIES).** February 20, pg. 89 (F)

Single-board computer updates status of emergency equipment on dynamic map. January 5, pg. 28 (A)

SPECIAL REPORT—Microprocessor development systems—which one is "best"? March 5, pg. 68 (F)

Successful μSystems combine user needs and μC technology **(EDN μC DESIGN SERIES).** April 20, pg. 104 (F)

Super-strength fibers enhance the future of lightwave communications. February 5, pg. 24 (N)

SID '77 will show you things you never saw before. April 5, pg. 25 (N)

Surface acoustic wave devices move into high-volume markets. May 5, pg. 96 (F)

Taximeter collects managerial data at the touch of a button. March 20, pg. 73 (A)

To get your μC project going, grab at corners of the problem **(EDN μC DESIGN SERIES).** May 20, pg. 84 (F)

Using charge-coupled devices can reduce bulk memory costs. January 5, pg. 70 (F)

Video RAM's add a new dimension to microcomputer interfacing. March 5, pg. 81 (F)